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REVIEWS

An Introduction to Chemical Crystallography. By P. GROTH.

Translated by HUGH MARSHALL. New York: John Wiley & Sons, 1906.

A short treatise on the relations between the properties of crystals and their chemical constitution, with special reference to the structure of crystals. The treatment assumes a knowledge of the laws of crystallography as set forth in such works as Groth's *Physikalische Krystallographie*. No attempt is made to review the history of the development of chemical crystallography; the subject is taken up in its present stage of advancement and the relations so far established are stated in principle and illustrated by specific examples.

The chief phases of the subject which are discussed may be briefly mentioned: crystal structure and its possible varieties, involving ideas of polymorphism or physical isomerism, pseudosymmetry and polysymmetry, as well as those of the crystal molecule; special consideration of polymorphism; a comparison of the crystal structures of chemically allied substances—morphotrophy; isomorphism, including a discussion of the similarity of crystal structure in substances possessing analogous chemical constitution; the relations between crystals and solutions of isomorphous substances, and isomorphous mixtures; and so-called molecular compounds.

Chemical crystallography, while essentially a part of physical chemistry and of special interest to the chemist, is of such fundamental importance in the study of minerals and rocks that this translation of the treatise by Professor Groth will be particularly acceptable to the mineralogist and petrologist.

J. P. I.